

PUB-NO: CH000622059A5
DOCUMENT-IDENTIFIER: CH 622059 A5
TITLE: Rotary piston machine

PUBN-DATE: March 13, 1981

INVENTOR-INFORMATION:

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ASSIGNEE-INFORMATION:

NAME	COUNTRY
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APPL-DATE: February 1, 1978

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INT-CL (IPC): F01C001/30

EUR-CL (EPC): F01C001/352

US-CL-CURRENT: 123/243

ABSTRACT:

CHG DATE=19990617 STATUS=O> The machine comprises the central shaft (4) to which converge the radial blades 1, 2, 3 of which one (1 to 3) is integral with the shaft (4), while the others (1, 2) are not fastened to the shaft. The blade (3) integral with the shaft (4) rotates the hollow cylinder (6) which is eccentric with respect to the shaft (4) and which in turn rotates the remaining blades (1, 3). An outer hollow cylinder (8) also revolving inside the stator (13) is arranged coaxially with the shaft (4) and the ends of the revolving blades slide over it. The inlet (V) and outlet (W) ports are formed in the said outer cylinder (8) while the inlet (E) and outlet (S) ducts lead into the stator (13). The inner cylinder (6) with end

flanges transmits (or receives) the power through a crown gear. According to this embodiment with inlet and outlet ports and ducts, the machine operates as a 2 or 4 stroke engine. It is also possible to configure it as a pump or compressor or as a pressurised fluid engine.

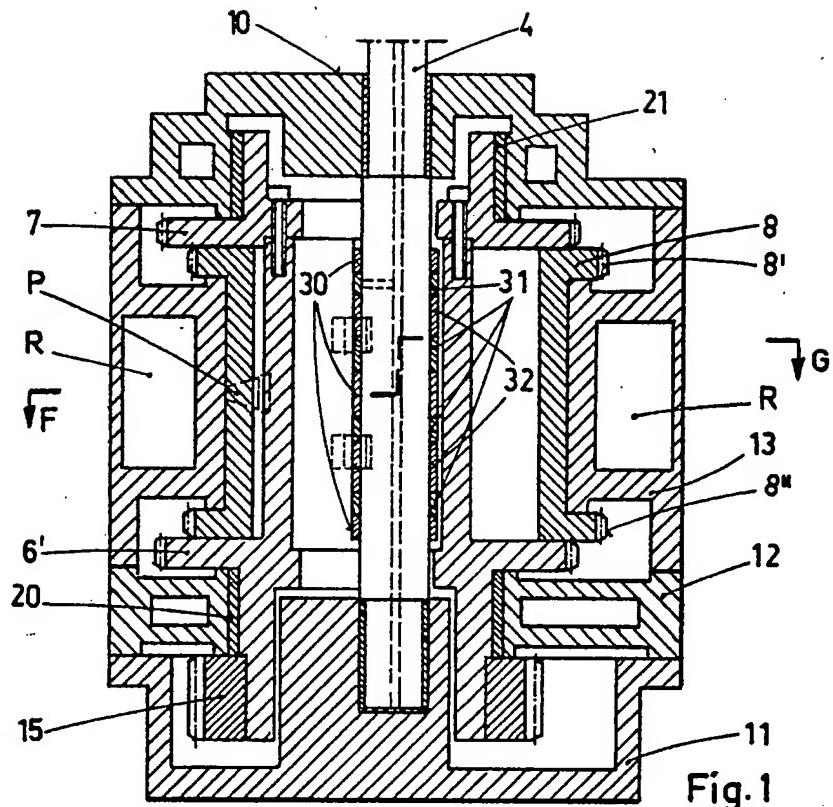


Fig. 1

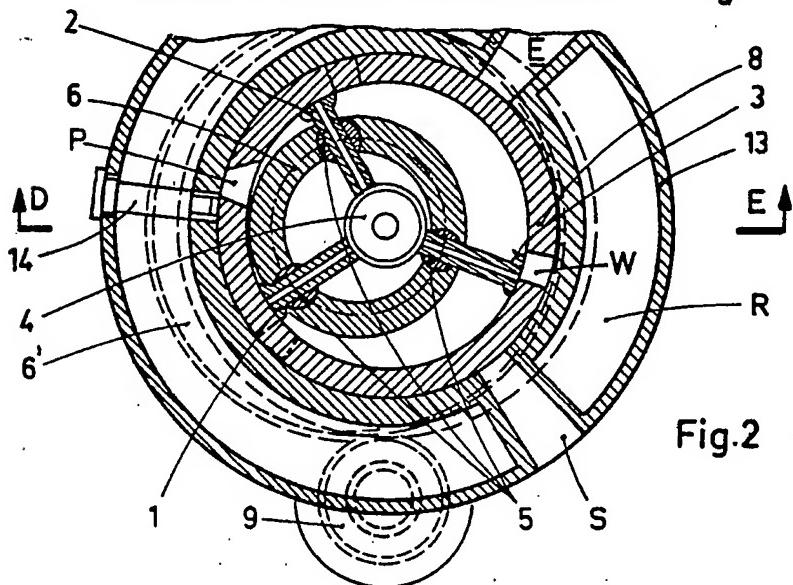
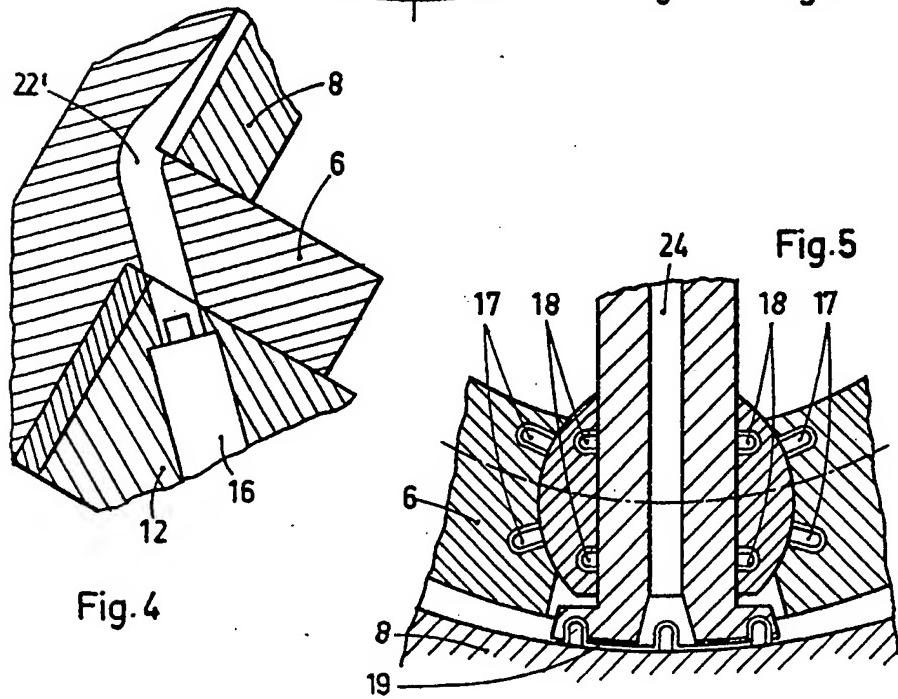
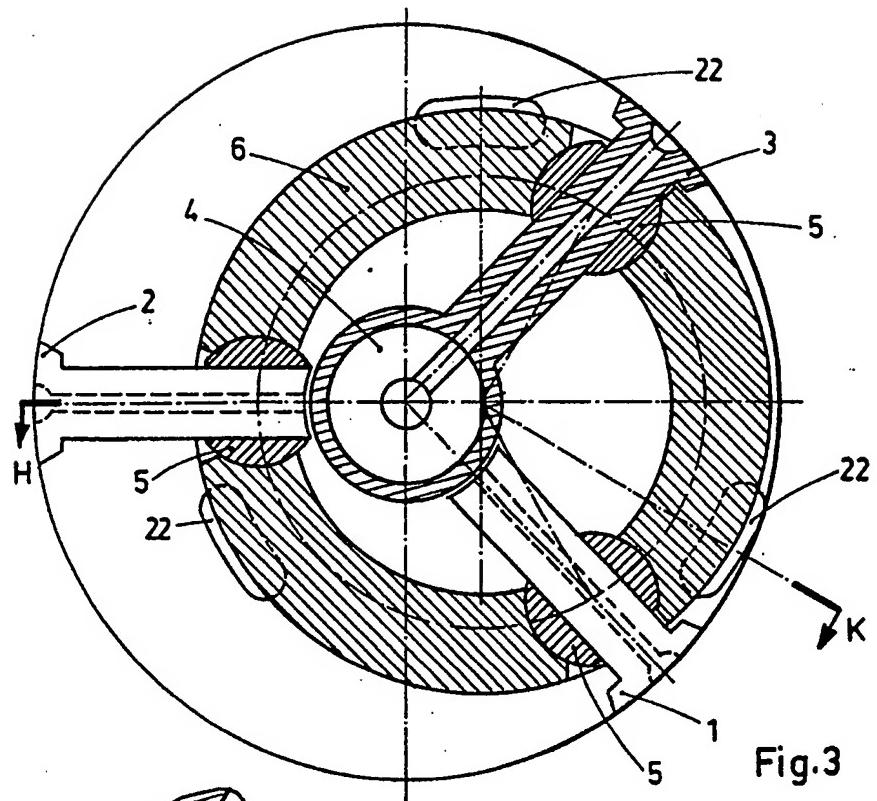


Fig. 2



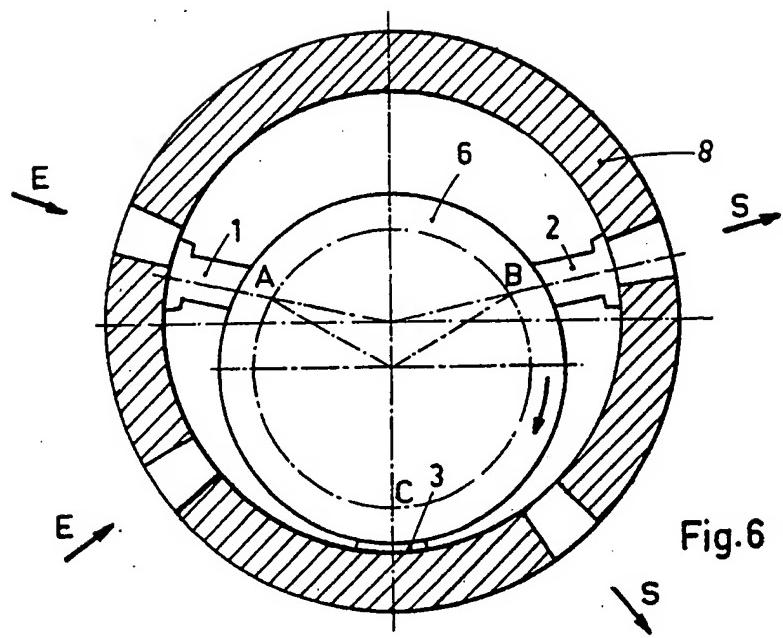


Fig.6

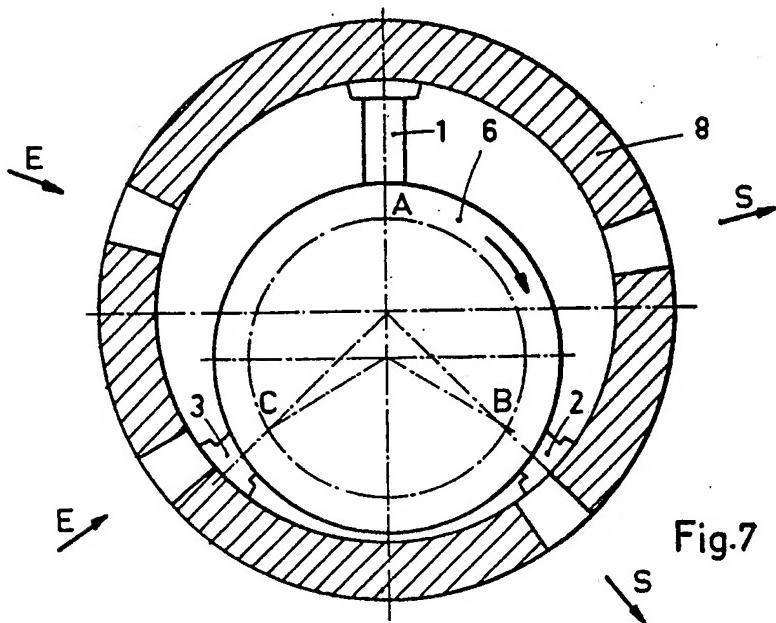


Fig.7

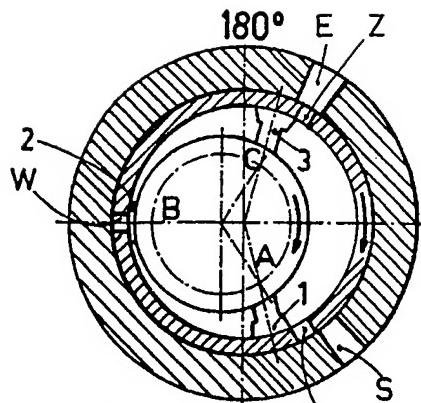


Fig.11

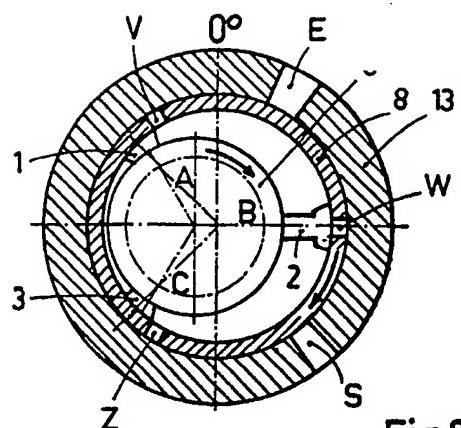


Fig.8

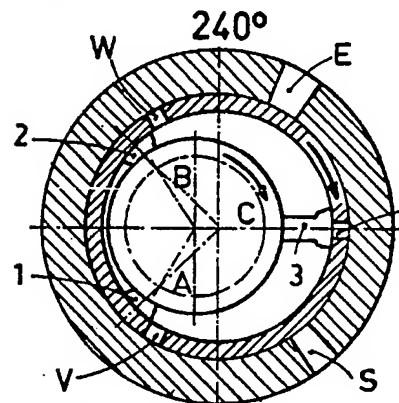


Fig.12

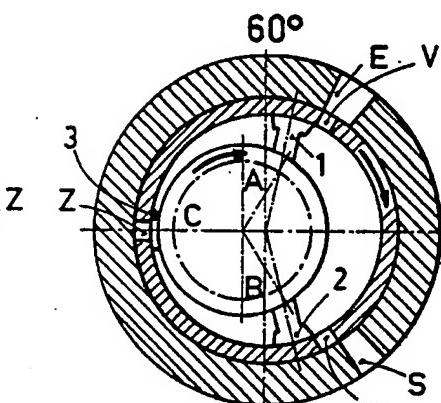


Fig.9

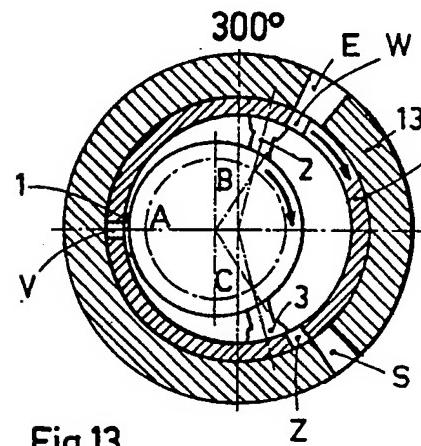


Fig.13

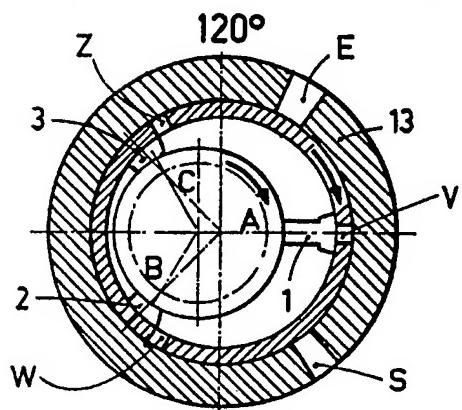


Fig.10

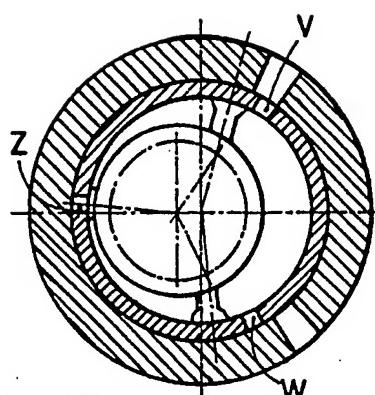


Fig. 16

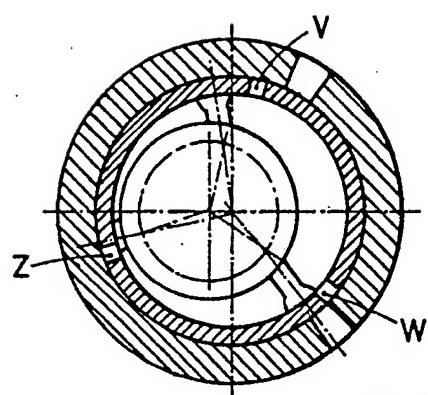


Fig. 14

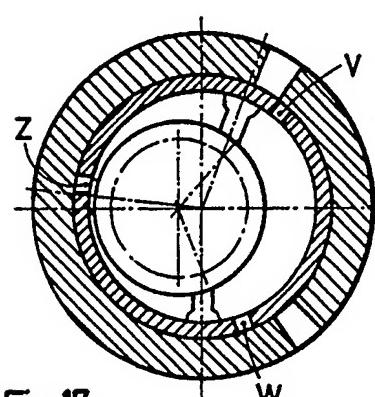


Fig. 17

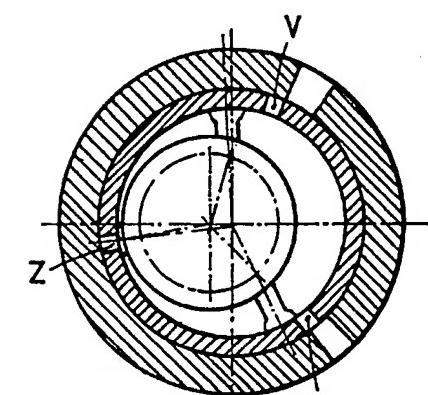


Fig. 15

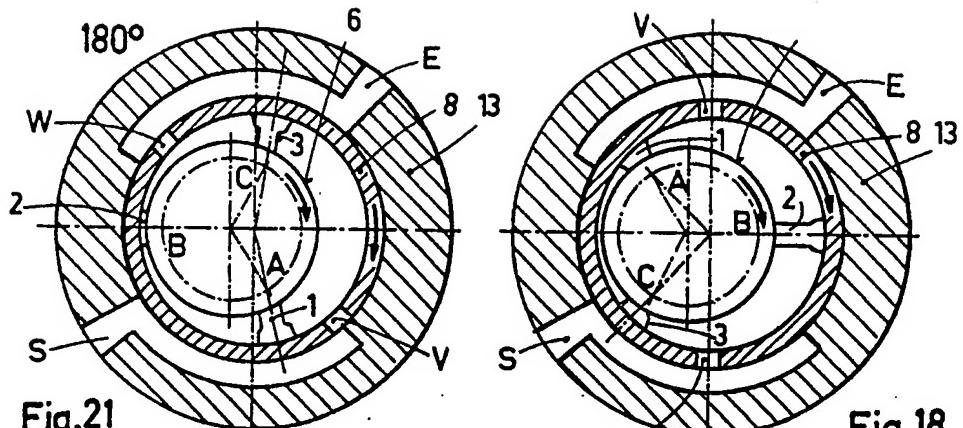


Fig. 21 Fig. 18

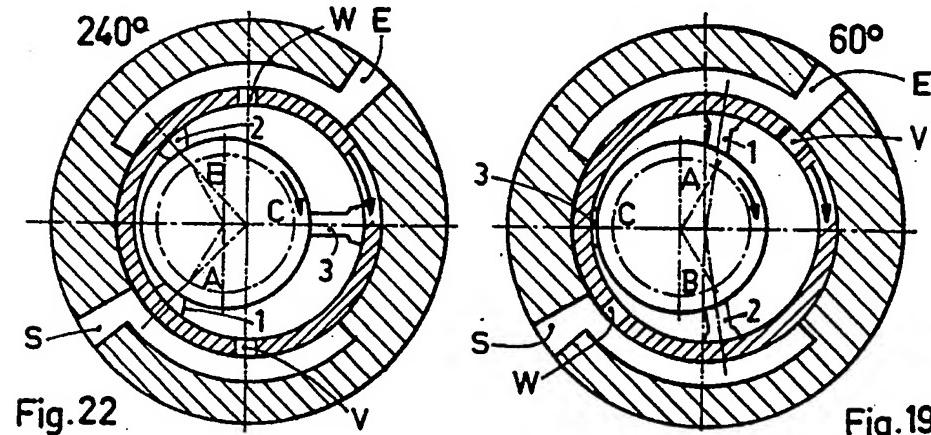


Fig. 22 Fig. 19

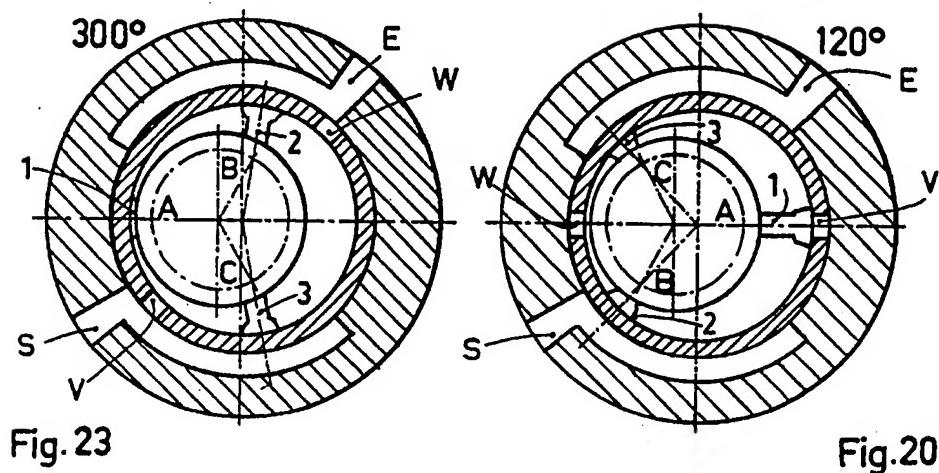


Fig. 23 Fig. 20

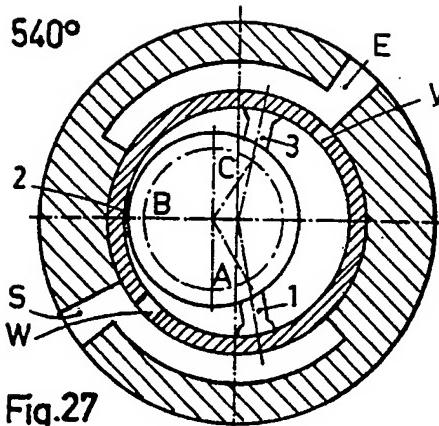


Fig.27

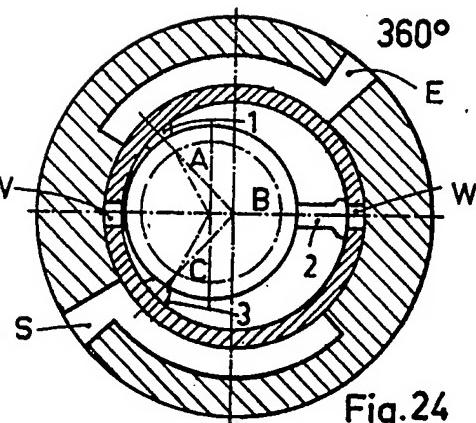


Fig.24

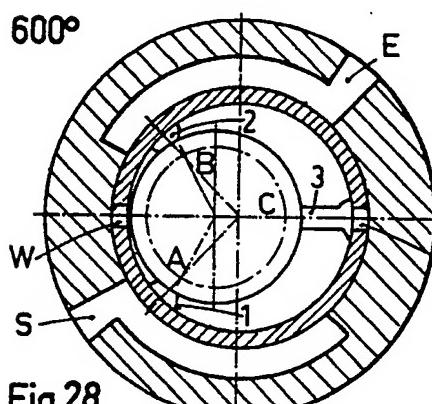


Fig.28

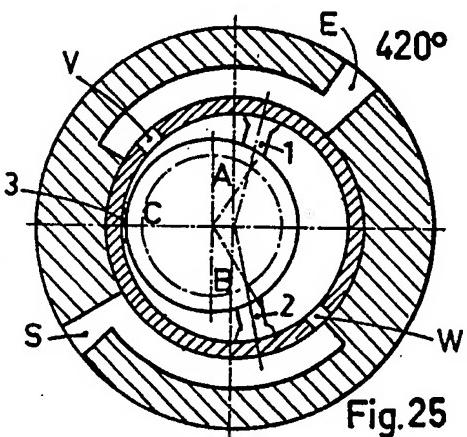


Fig.25

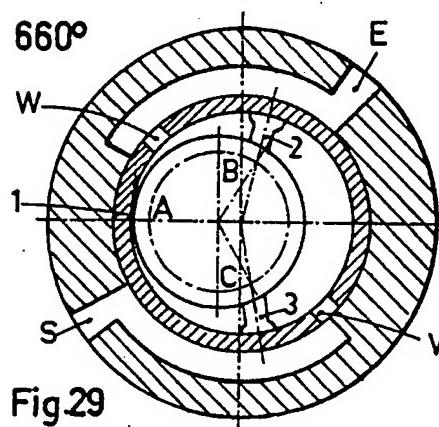


Fig.29

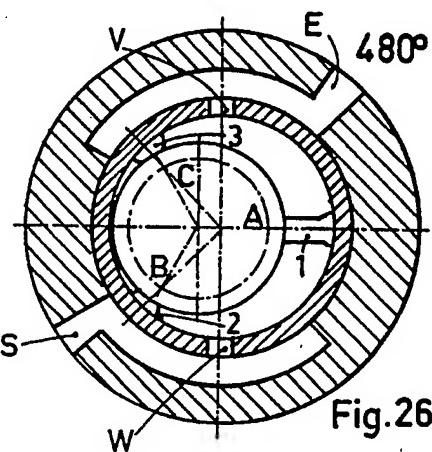


Fig.26